GEMS 8081.197 Toth et al.

SYSTEM AND METHOD OF DETERMINING A USER-DEFINED REGION-OF-INTEREST OF AN IMAGING SUBJECT FOR X-RAY FLUX CONTROL

5 ABSTRACT

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A system and method of diagnostic imaging is provided that includes positioning a subject in an imaging device, performing at least one scout scan, and marking a user-defined region-of-interest. An attenuation characteristic of an attenuation filter is then automatically adjusted based on the user-defined region-of-interest. The present invention automatically selects a proper attenuation filter configuration, corrects patient centering, and corrects noise prediction errors, thereby increasing dose efficiency and tube output.